

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/20504

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : G06F 11/00 US CL : 714/704 According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S. : 714/704, 755, 780, 784, 795; 455/63; 375/316; 370/206, 208, 343 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WEST		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,909,436 A (ENGSTROM et al) 01 June 1999, see column 1 lines 32-51, column 11 lines 40 et seq., Figures 10-11.	1-20
Y	US 6,359,938 B1 (KEEVILL et al) 19 March 2002, see column 1 line 30 - column 8 line 60, Figures 5-6, 15, 38, 57.	1-20
Y	US 2002/0073436 A1 (COWLEY et al) 13 June 2002, see paragraphs 1-42, Figure 2.	1-20
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 03 November 2002 (03.11.2002)		Date of mailing of the international search report 06 DEC 2002
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703)305-3230		Authorized officer Guy J. Lamarre, P.E. <i>Guy J. Lamarre</i> Telephone No. 703 305 3900